MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI–DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315–2590 F (786) 315–2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Nana Wall System Inc.
707 Redwood Highway
Mill Valley, CA 94941

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami–Dade County RER–Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/ or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "SL–73" Aluminum Inswing Folding Doors – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1636 B1,** titled "SL–73 In–Swing Impact Folding Panels", sheets 01 through 08 of 08, dated 11/23/09 and last revision "**B1**" dated 02/19/15, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 04/15/15, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami–Dade County Product Control Section Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LIMITATIONS: 1. Maximum panel width = D.L.O. width + 8.125".

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Richmond, CA** or **Bissendorf/ NRW, Germany**, series, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews NOA No. 14–0428.03** and consists of this page 1 and evidence pages E–1 and E–2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon
4/23/15

NOA No. 15–0226.06
Expiration Date: August 11, 2020
Approval Date: April 30, 2015

Nana Wall System, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA No. 10–0322.18)
2. Drawing No. **1636 B1,** titled "SL–73 In–Swing Impact Folding Panels", sheets 01 through 08 of 08, dated 11/23/09 and last revision "**B1**" dated 02/19/15, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 04/15/15, signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202–94

   along with marked–up drawings and installation diagram of an aluminum inswing folding door, prepared by Architect Testing, Inc., Test Report No. **ATI–91081.01–301–18,** dated 12/15/09, signed and sealed by Joshua M. Royce, P. E.
   (Submitted under previous NOA No. 10–0322.18)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 02/19/15, signed and sealed by Warren W. Schaefer, P. E.
2. **Glazing complies with ASTM E1300–04/ 09**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14–0916.11** issued to **Kuraray America, Inc.** for their **"Kuraray SentryGlas® Interlayer"** expiring on 01/14/17.
2. Test Report No. **ATI–60520.01–106–18**, prepared by Architectural Testing, Inc., dated 11/09/06, issued to Ensinger GmbH, for their **Tecatherm 66 GF Insul–Bar Thermal Barrier** per **ASTM G–55** *Standard Test Method for "Evaluating Coating Patch Materials – Xenon Arch Weathering"*, **ASTM D635** *"Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position"*, **ASTM D638** *"Standard Test Methods for Tensile Properties of Plastics"*, **ASTM D1929** *"Standard Test Method for Ignition Properties of Plastics"* and **ASTM D2843** *"Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics"*, signed by Joseph M. Brickner and Todd D. Burroughs.
   (Submitted under previous NOA No. 10–0322.18)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 15–0226.06
Expiration Date: August 11, 2020
Approval Date: April 30, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (CONTINUED)

3. TREMCO Part No. **TR–14271E EPDM exterior glazing gasket** complying with ASTM C864 Option II exceptions, ASTM D412 1600 PSI, D395B 22 HRS 158°F.
(Submitted under previous NOA No. 10–0322.18)

F. STATEMENTS

1. Statement letter of conformance to, of complying with **FBC 5th Edition (2014)** and of no financial interest, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 02/19/15, signed and sealed by Warren W. Schaefer, P. E.
2. Distribution agreement between Solarlux Nana Mfg., LLC, Richmond, CA and Nana Wall System, Inc., Corte Madera, CA., dated 04/20/15, signed by Ebrahim Nana and Ahmad Nana, respectively.
3. Laboratory addendum letter for Test Report No. **ATI–91081.01–301–18**, issued by Architect Testing, Inc., dated 10/06/11, signed and sealed by Tyler Westerling, P. E.
(Submitted under previous NOA No. 11–1024.04)
4. Distribution agreement between Solarlux Aluminium Systeme, GmbH, Bissendorf/ NRW, Germany and Nana Wall System, Inc., Mill Valley, CA., dated 12/02/09, signed by Stefan Holtgreife, C.E.O. and Ahmad Nana, V.P., respectively.
(Submitted under previous NOA No. 10–0322.18)
5. Statement letter of no financial interest, conformance to and of complying with **FBC–2010**, issued by W. W. Schaefer Engineering & Consulting, P. A., dated 10/18/11, signed & sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 10–0322.18)
6. Laboratory addendum letter for Test Report No. **ATI–91081.01–301–18**, issued by Architect Testing, Inc., dated 12/15/09, signed and sealed by Michael D. Stremmel, P. E.
(Submitted under previous NOA No. 11–1024.04)
7. Laboratory compliance letter for Test Report No. **ATI–91077.01–301–18**, issued by Architect Testing, Inc., dated 06/15/09, signed and sealed by Tyler Westerling, P. E. and by Joshua M. Royce, P. E.
(Submitted under previous NOA No. 10–0322.19)

G. OTHERS

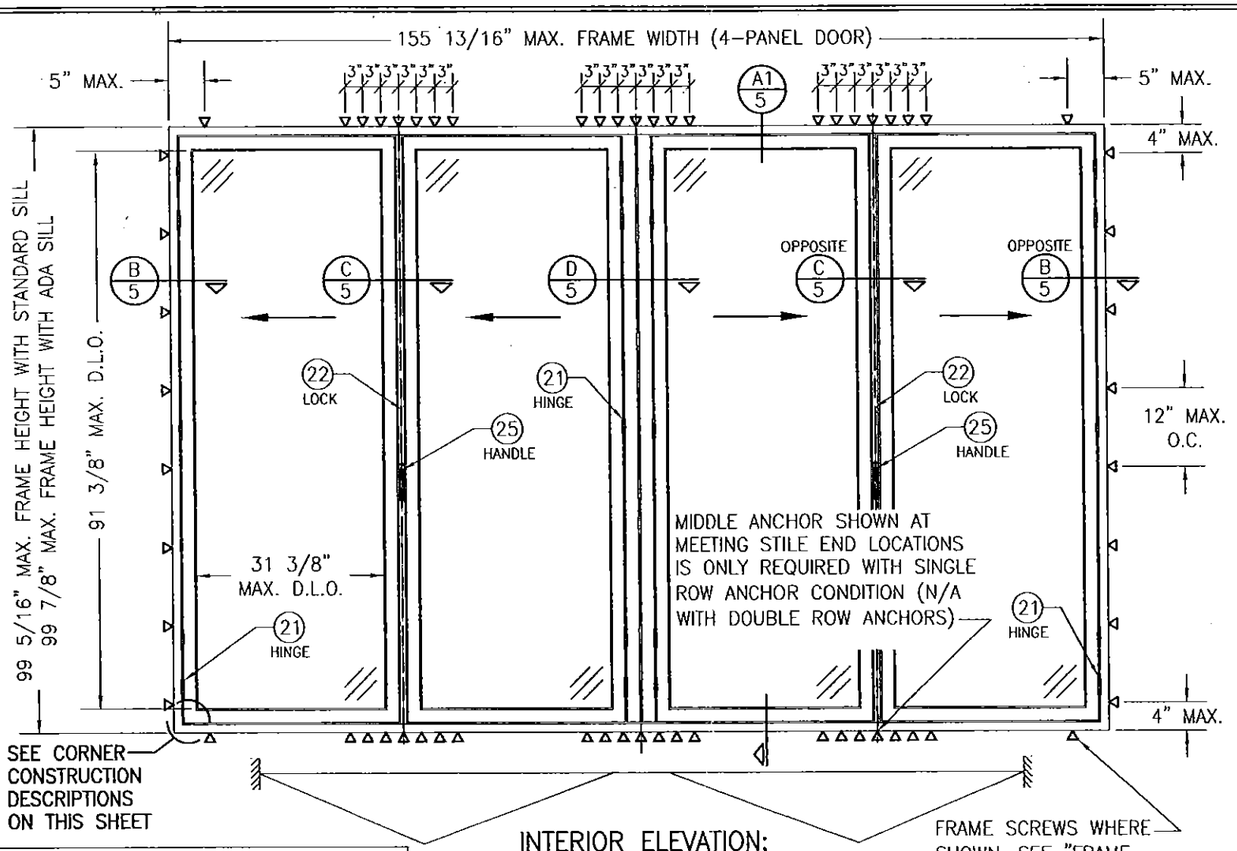
1. Notice of Acceptance No. **14–0428.03**, issued to Nana Wall System, Inc. for their Series "**SL–73 Aluminum Inswing Folding Doors – LMI**", approved on 06/10/14 and expiring on 08/11/15.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 15–0226.06
Expiration Date: August 11, 2020
Approval Date: April 30, 2015

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT PRODUCTS.
5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
7. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.

HINGE REQUIREMENTS
5 PER PANEL (ALL PANEL SIZES) PLACED APPROXIMATELY 5" & 13" FROM TOP & BOTTOM & AT MIDDLE OF PANEL



INTERIOR ELEVATION: (2 DIRECTION FOLDING PANELS)

SCALE: 1/2" = 1'-0"

(4-PANEL DOOR SHOWN. SEE SHEET 4 FOR OTHER DOOR PANEL QUANTITY CONDITIONS AND RESTRICTIONS.)

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
(1) SINGLE SCREW ROW			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 16 GA. 33 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(2) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"
MIN. 2500 PSI CONCRETE	(2) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"
DOUBLE SCREW ROW			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(2) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(2) 1/4" CONCRETE SCREW	1 1/2"	2"

(1) WHEN SINGLE SCREW ROW ANCHORING METHOD IS USED SCREWS MUST HAVE A ø3/4" O.D. FLAT WASHER AT THE SCREW HEAD.

(2) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

(3) 2X6 WOOD BUCK MAY BE RIPPED DOWN TO 4 1/2" PROVIDING THAT REQ'D SCREW TO BUCK EDGE DISTANCES ARE MAINTAINED.

ALLOWABLE DESIGN PRESSURE WITH STANDARD SILL

MAX. FRAME HEIGHT (IN.)	MAX. D.L.O. WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) GLASS OPTION 1, 3 & 4 POS.	NEG.	GLASS OPTION 2 POS.	NEG.	GLASS OPTION 5 POS.	NEG.	GLASS OPTION 6 POS.	NEG.
99 5/16	31 3/8	70.0	100.0	70.0	87.4	70.0	94.3	70.0	99.8
	28 3/8	75.8	108.2	75.8	105.0	75.8	108.2	75.8	108.2
	25 3/8	80.0	110.0	80.0	110.0	80.0	110.0	80.0	110.0
	22 3/8	80.0	110.0	80.0	110.0	80.0	110.0	80.0	110.0
93 5/16	31 3/8	74.5	106.4	74.5	92.9	74.5	100.0	74.5	106.0
	28 3/8	80.0	110.0	80.0	107.0	80.0	110.0	80.0	110.0
	25 3/8	80.0	110.0	80.0	110.0	80.0	110.0	80.0	110.0
87 5/16	31 3/8	79.6	110.0	79.6	97.5	79.6	105.0	79.6	110.0
	28 3/8	80.0	110.0	80.0	110.0	80.0	110.0	80.0	110.0
82 5/16	31 3/8	80.0	110.0	80.0	102.0	80.0	110.0	80.0	110.0
	28 3/8	80.0	110.0	80.0	110.0	80.0	110.0	80.0	110.0

SEE SHEET 7 FOR GLASS OPTIONS

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No 15-0226.06
Expiration Date 08/11/2020
By
Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

CORNER CONSTRUCTION:

FRAME (WITH STANDARD RAISED SILL): MEMBERS ARE MITERED, BUTTED & JOINED VIA (2)TWO CORNER KEYS (ITEM #12) EACH CORNER KEY IS SECURED WITH (2)TWO ø5/16" X 3/4" BRASS CONE PINS. CORNERS ARE SEALED WITH SILICONE SEALANT.
FLUSH SADDLE SILL: MEMBERS ARE SQUARE CUT, BUTTED & JOINED VIA AN END CAP WITH (3)THREE 1/8" X 5/8" FHTF SCREWS AT THE SILL & (2)TWO 1/8" X 5/8" FHTF SCREWS AT THE VERTICAL MEMBER. CORNERS ARE SEALED WITH A CUSHION WEATHERSTRIPPING.
RAIL TO STILE: MEMBERS ARE MITERED, BUTTED & JOINED VIA (2)TWO CORNER KEYS (ITEM #13 & #14) THE CORNER KEY IS SECURED BY CRIMPING (2)TWO LEGS EACH PANEL. CORNERS ARE SEALED WITH SILICONE SEALANT.

(1) ALLOWABLE DESIGN PRESSURE WITH ADA SILL

MAX. FRAME HEIGHT (IN.)	MAX. D.L.O. WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) POS.	NEG.
99 7/8	31 3/8	70.0	70.0
	28 3/8	75.8	75.8
	25 3/8	82.5	82.5
	22 3/8	90.0	90.0
93 7/8	31 3/8	74.5	74.5
	28 3/8	80.6	80.6
	25 3/8	87.8	87.8
	24 3/8	90.0	90.0
87 7/8	31 3/8	79.6	79.6
	28 3/8	86.1	86.1
	26 3/8	90.0	90.0
82 7/8	31 3/8	84.4	84.4
	28 3/8	90.0	90.0

(1) WHEN AN ADA/FLUSH SADDLE SILL IS USED, THESE DOORS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION OR THEY ARE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE CONSULTANTS ADDRESS	W.R.M.	10/18/11
B1	UPDATE TO CURRENT STANDARDS	W.W.S.	02/19/15

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 11/23/09

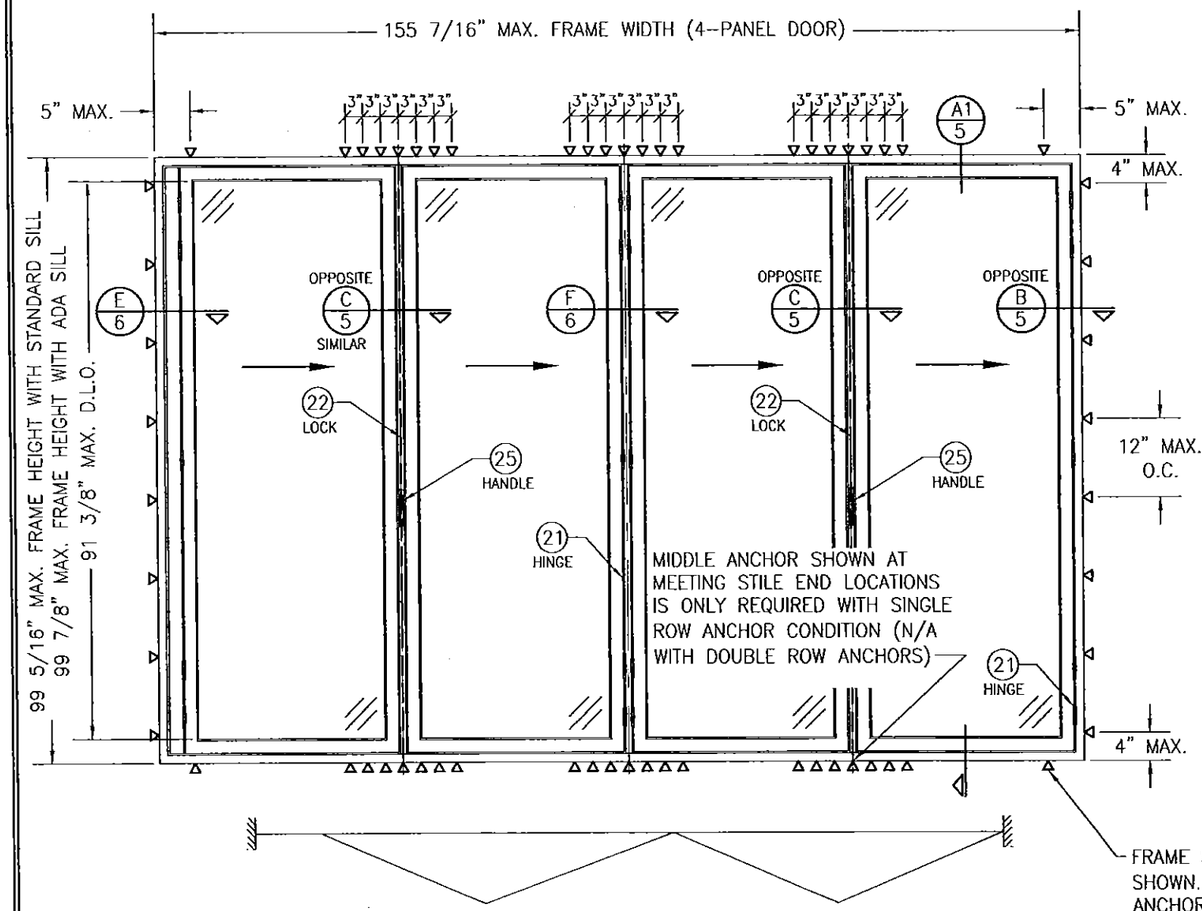
DRAWING TITLE: SL-73 IN-SWING IMPACT FOLDING PANELS

MANUFACTURER: NANA WALL SYSTEMS, INC
707 REDWOOD HIGHWAY
MILL VALLEY, CA 94941
800-873-5673

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
APR 15 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

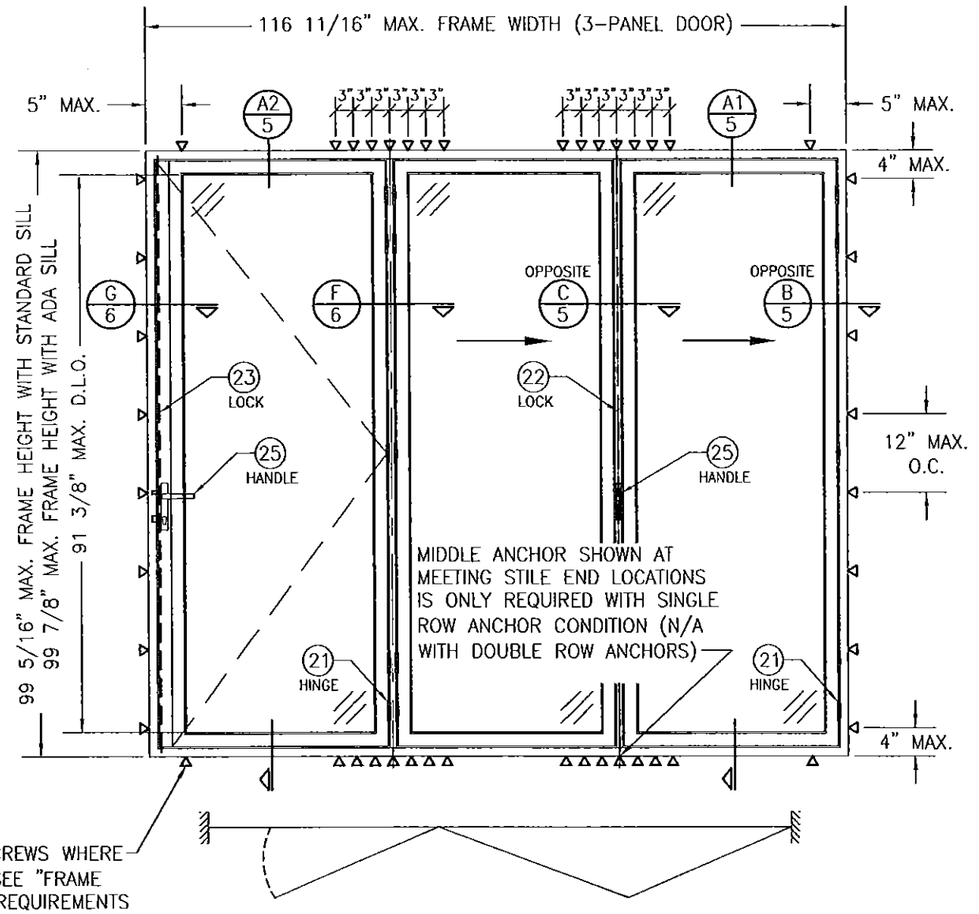
DRAWING NO. 1636 | REV. B
SHEET NO. 1 OF 8



INTERIOR ELEVATION:
(1 DIRECTION FOLDING PANELS)

SCALE: 1/2" = 1'-0"

(4-PANEL DOOR SHOWN. SEE SHEET 4 FOR OTHER DOOR PANEL QUANTITY CONDITIONS AND RESTRICTIONS.)



INTERIOR ELEVATION:
(1 DIRECTION FOLDING PANELS WITH SWING PANEL LOCKING TO JAMB)

SCALE: 1/2" = 1'-0"

(ACTIVE SWING DOOR SHOWN WITH MULTI-POINT LOCK. DEADBOLT/FLUSH BOLT LOCK COMBINATION ALSO APPLIES)

(3-PANEL DOOR SHOWN. SEE SHEET 4 FOR OTHER DOOR PANEL QUANTITY CONDITIONS AND RESTRICTIONS.)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 15-0226.06
Expiration Date 08/11/2020
By
Miami Dade Product Control

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 11/23/09

NO.	REVISION DESCRIPTION	BY	DATE

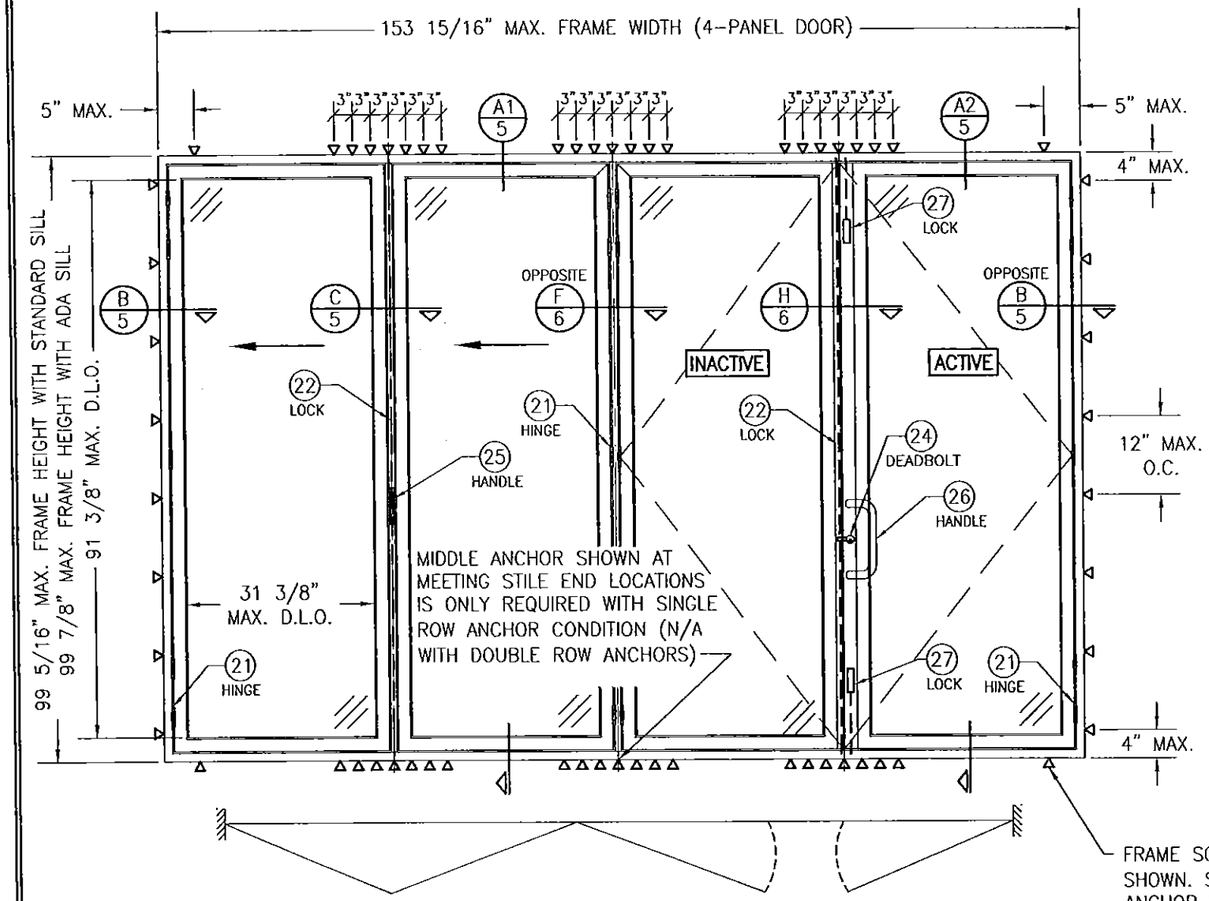
DRAWING TITLE
SL-73 IN-SWING IMPACT FOLDING PANELS

MANUFACTURER
NANA WALL SYSTEMS, INC
707 REDWOOD HIGHWAY
MILL VALLEY, CA 94941
800-873-5673

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
APR 15 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1636 | REV. B
SHEET NO. 2 OF 8

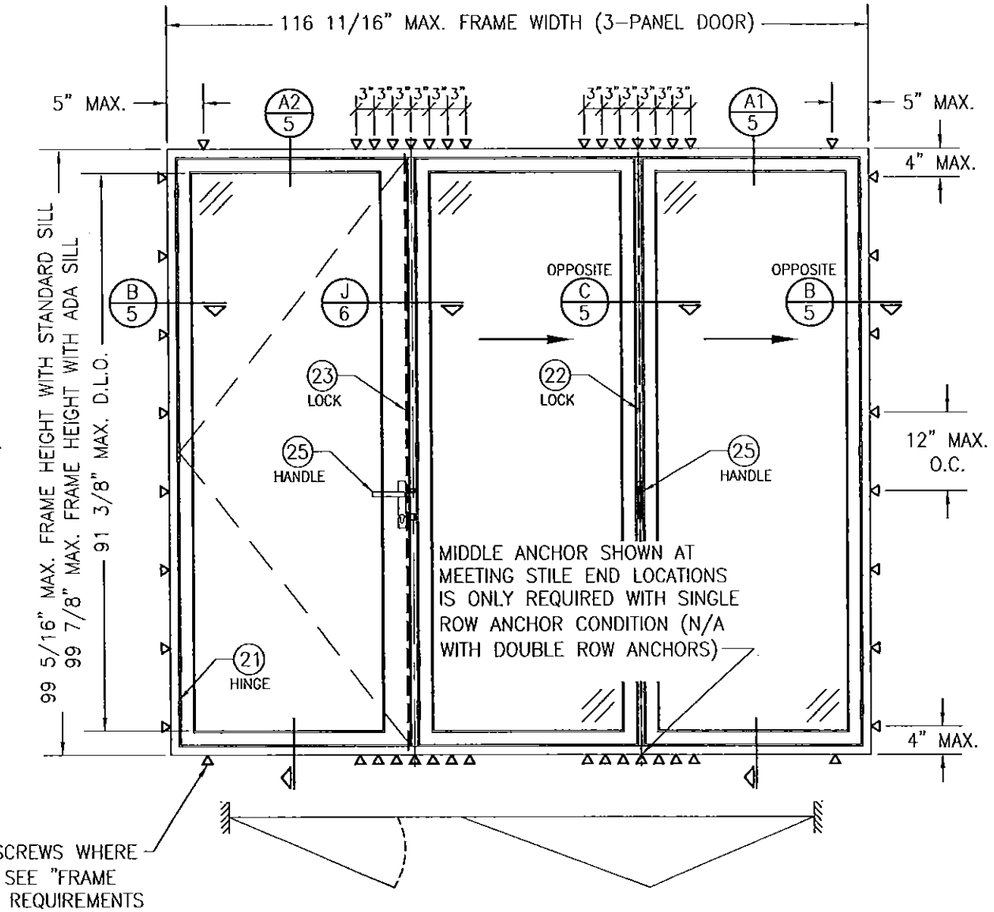


INTERIOR ELEVATION:
(1 DIRECTION FOLDING PANELS WITH DOUBLE SWING PANELS)

SCALE: 1/2" = 1'-0"

(ACTIVE SWING DOOR SHOWN WITH DEADBOLT/FLUSH BOLT LOCK COMBINATION. MULTI-POINT LOCK ALSO APPLIES)

(4-PANEL DOOR SHOWN. SEE SHEET 4 FOR OTHER DOOR PANEL QUANTITY CONDITIONS AND RESTRICTIONS.)



INTERIOR ELEVATION:
(SWING PANEL LOCKING TO 1 DIRECTION FOLDING PANELS)

SCALE: 1/2" = 1'-0"

(ACTIVE SWING DOOR SHOWN WITH MULTI-POINT LOCK. DEADBOLT/FLUSH BOLT LOCK COMBINATION ALSO APPLIES)

(3-PANEL DOOR SHOWN. SEE SHEET 4 FOR OTHER DOOR PANEL QUANTITY CONDITIONS AND RESTRICTIONS.)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 15-0226.02
Expiration Date 01/31/2020
By
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 11/23/09

NO.	REVISION DESCRIPTION	BY	DATE

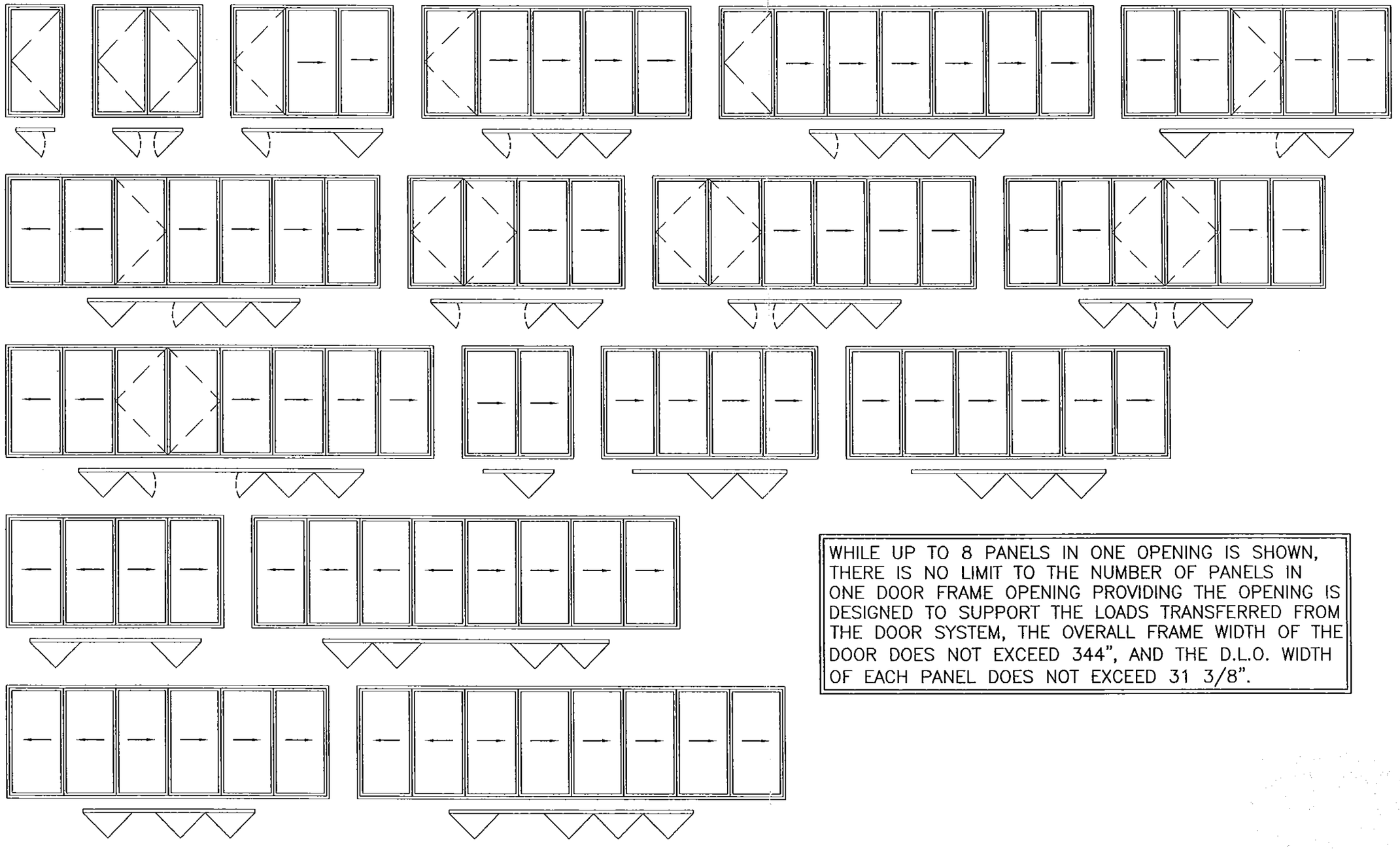
DRAWING TITLE
SL-73 IN-SWING IMPACT FOLDING PANELS

MANUFACTURER
NANA WALL SYSTEMS, INC
707 REDWOOD HIGHWAY
MILL VALLEY, CA 94941
800-873-5673

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
APR 15 2015
MARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1636
REV. B
SHEET NO. 3 OF 8



WHILE UP TO 8 PANELS IN ONE OPENING IS SHOWN, THERE IS NO LIMIT TO THE NUMBER OF PANELS IN ONE DOOR FRAME OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE DOOR SYSTEM, THE OVERALL FRAME WIDTH OF THE DOOR DOES NOT EXCEED 344", AND THE D.L.O. WIDTH OF EACH PANEL DOES NOT EXCEED 31 3/8".

CONDITIONS SHOWN ARE THE MAJORITY OF THOSE USED. OTHER CONDITIONS OF FOLDING & SWING PANELS APPLY PROVIDING THEY ARE WITHIN THE SCOPE OF THE DETAILS WITHIN THIS DRAWING.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 15-0226.06
Expiration Date 08/11/2020
By
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 11/23/09

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
SL-73 IN-SWING IMPACT FOLDING PANELS

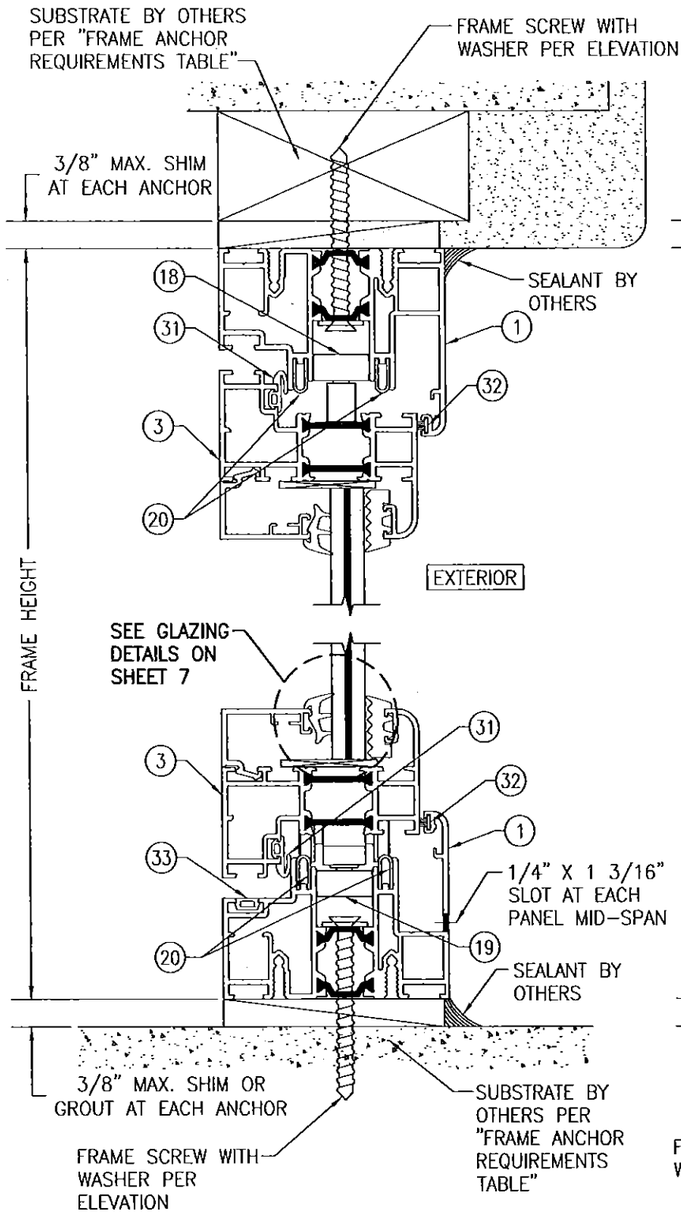
MANUFACTURER
NANA WALL SYSTEMS, INC
707 REDWOOD HIGHWAY
MILL VALLEY, CA 94941
800-873-5673

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
APR 15 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.	REV.
1636	B

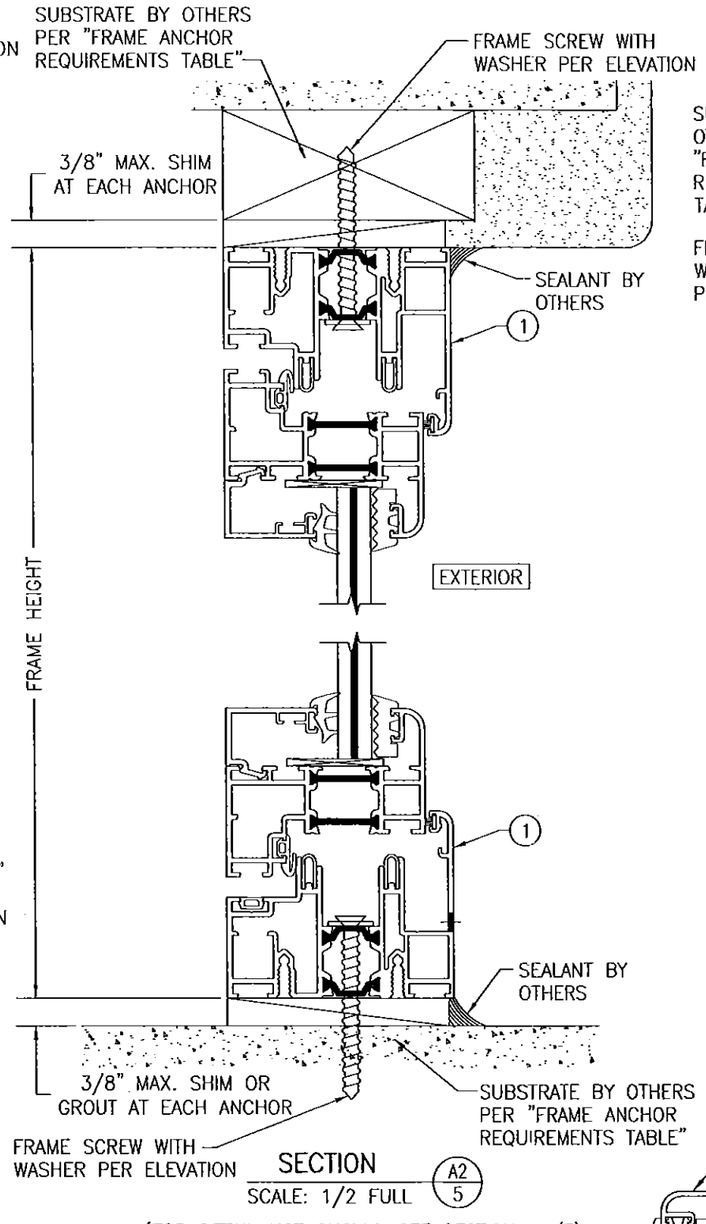
SHEET NO.
4 OF 8



SECTION A1/5
SCALE: 1/2 FULL

* STANDARD LOW PROFILE SILL RAIL CONDITION SHOWN. SEE "HIGH PROFILE SILL RAIL DETAIL" ON SHEET 6 FOR HIGH PROFILE SILL RAIL CONDITION

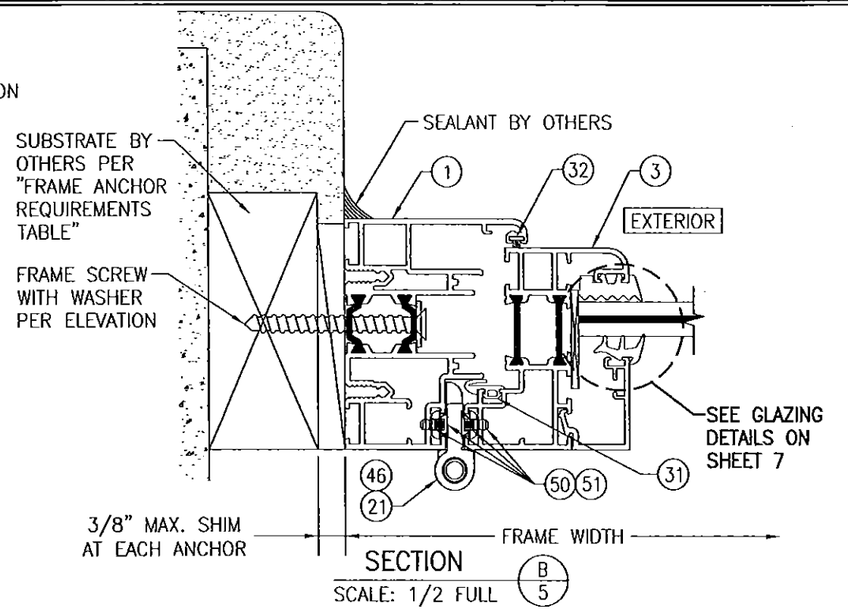
* STANDARD SILL CONDITION SHOWN. SEE "FLUSH SADDLE SILL DETAIL" ON SHEET 7 FOR ADA SILL CONDITION



SECTION A2/5
SCALE: 1/2 FULL

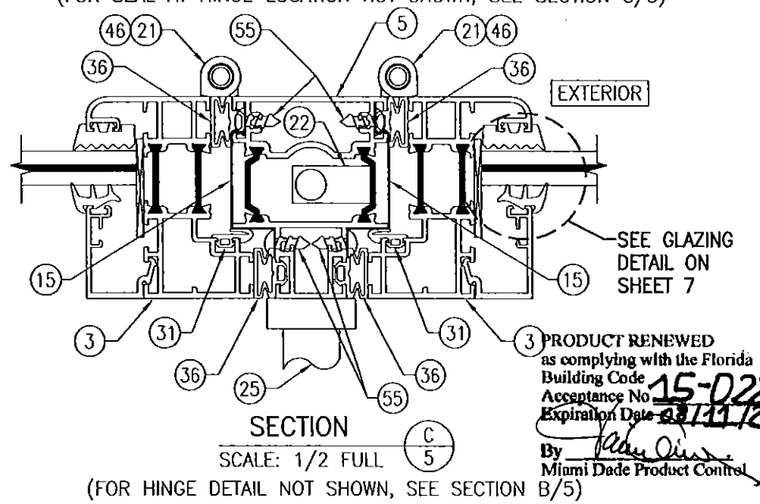
(FOR DETAIL NOT SHOWN, SEE SECTION A1/5)

INSTALLATION CONDITION SHOWN IN THESE SECTIONS IS FOR A SINGLE ANCHOR ROW CONDITION. FOR THE DOUBLE ANCHOR ROW CONDITION, SEE "DOUBLE ANCHOR ROW DETAILS" ON SHEETS 6 & 7



SECTION B/5
SCALE: 1/2 FULL

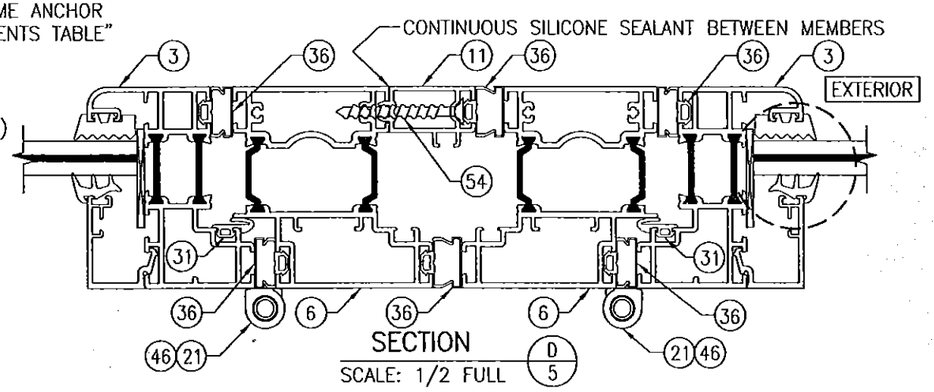
(FOR SEAL AT HINGE LOCATION NOT SHOWN, SEE SECTION C/5)



SECTION C/5
SCALE: 1/2 FULL

(FOR HINGE DETAIL NOT SHOWN, SEE SECTION B/5)

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 15-0226.06
Expiration Date 03/11/2020
By Miami Dade Product Control



SECTION D/5
SCALE: 1/2 FULL

(FOR HINGE DETAIL NOT SHOWN, SEE SECTION B/5)

DRAWN BY: W.R.M	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/23/09

NO.	REVISION DESCRIPTION	BY	DATE

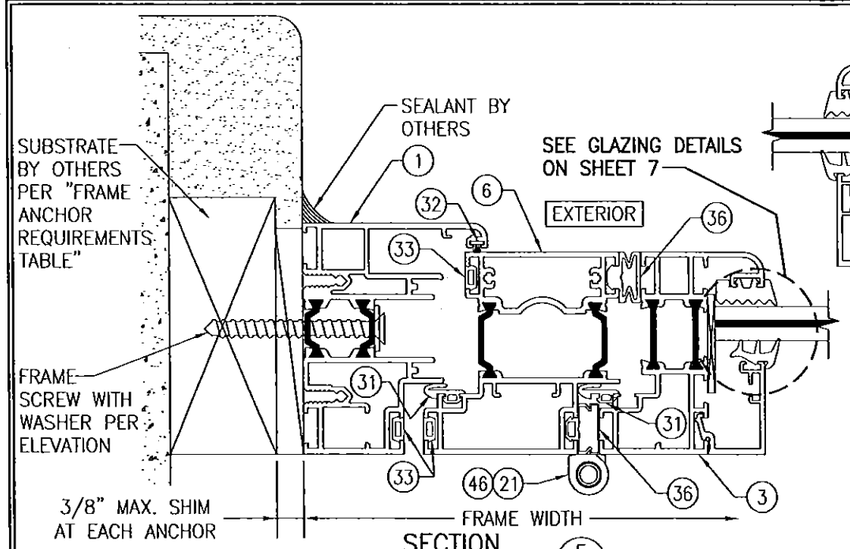
DRAWING TITLE
SL-73 IMPACT FOLDING PANELS
SWING

MANUFACTURER
NANA WALL SYSTEMS, INC
707 REDWOOD HIGHWAY
MILL VALLEY, CA 94941
800-873-5673

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

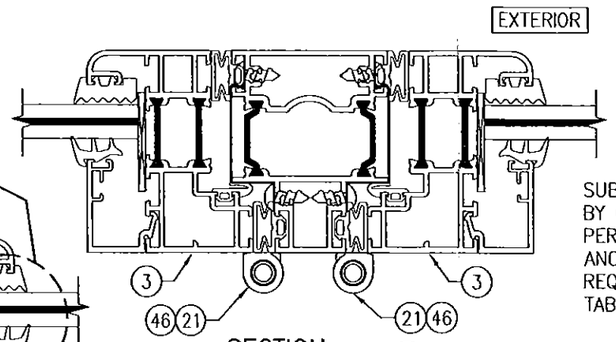
CERTIFICATION
APR 15 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1636
REV. B
SHEET NO. 5 OF 8



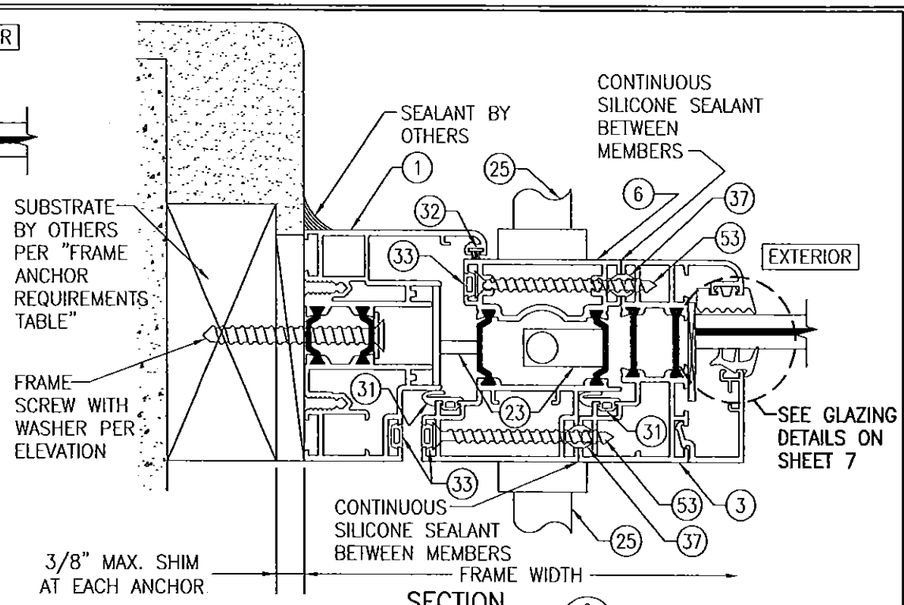
SECTION E
SCALE: 1/2 FULL 6

(FOR HINGE DETAIL NOT SHOWN, SEE SECTION B/5)



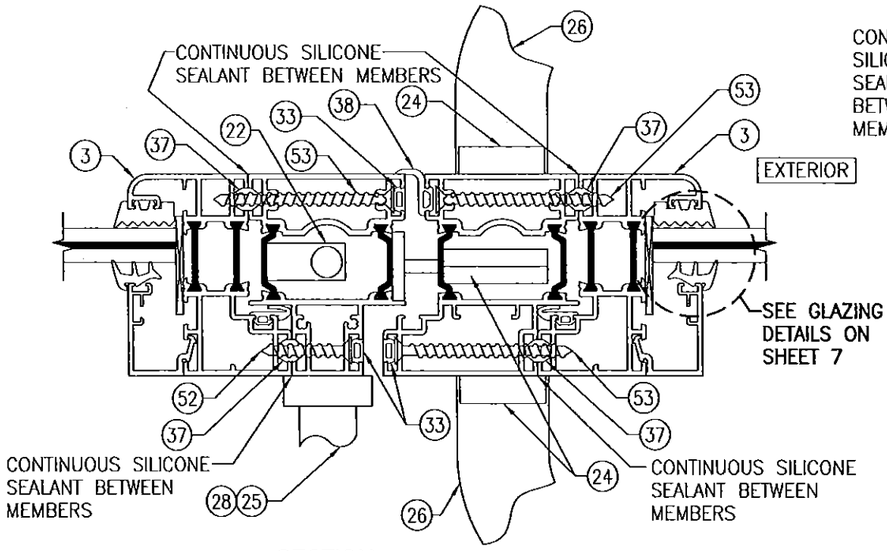
SECTION F
SCALE: 1/2 FULL 6

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



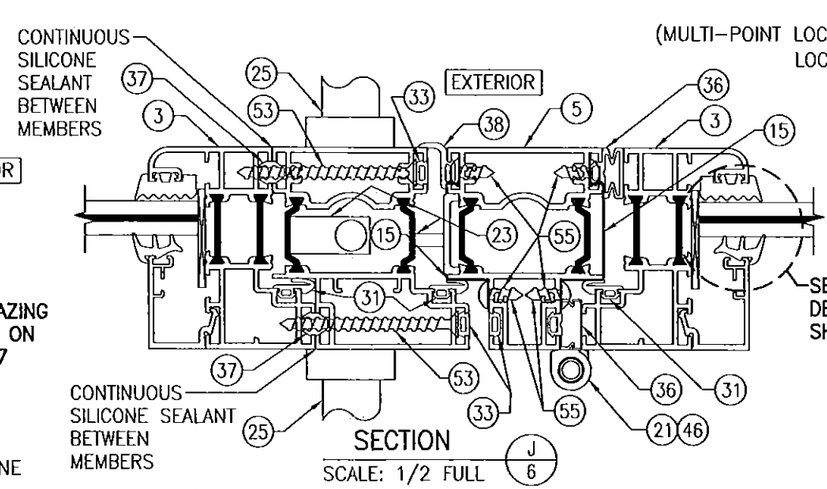
SECTION G
SCALE: 1/2 FULL 6

(MULTI-POINT LOCK HARDWARE SHOWN. DEADBOLT/FLUSH BOLT LOCK COMBINATION ALSO APPLIES)



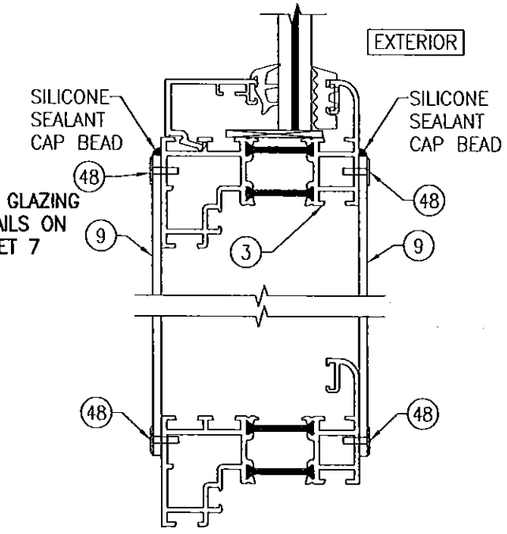
SECTION H
SCALE: 1/2 FULL 6

(DEADBOLT/FLUSH BOLT LOCK COMBINATION ON ACTIVE DOOR SHOWN. MULTI-POINT LOCK HARDWARE COMBINATION ALSO APPLIES)



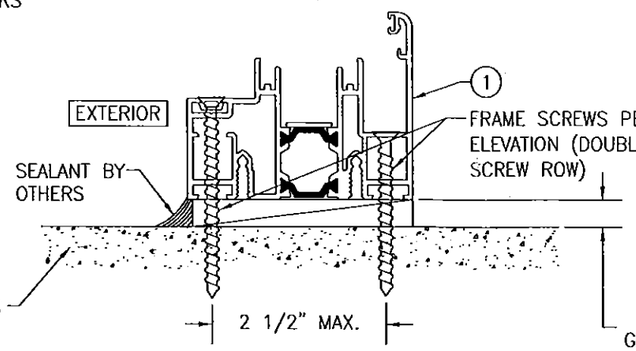
SECTION J
SCALE: 1/2 FULL 6

(FOR HINGE DETAIL NOT SHOWN, SEE SECTION B/5)



OPTIONAL HIGH PROFILE SILL RAIL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



DOUBLE ROW ANCHOR DETAIL AT SILL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 15-0226.06
Expiration Date 08/11/2020
By
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/23/09

NO.	REVISION DESCRIPTION	BY	DATE

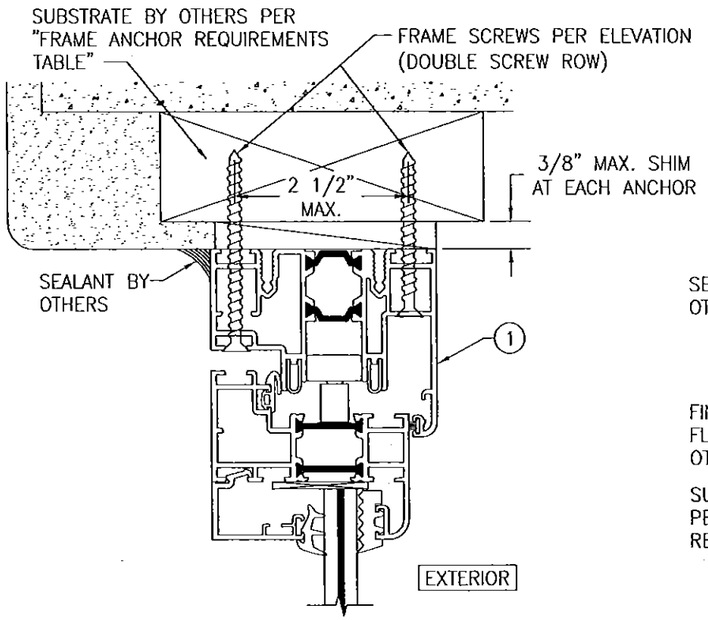
DRAWING TITLE
SL-73 IN-SWING IMPACT FOLDING PANELS

MANUFACTURER
NANA WALL SYSTEMS, INC
707 REDWOOD HIGHWAY
MILL VALLEY, CA 94941
800-873-5673

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

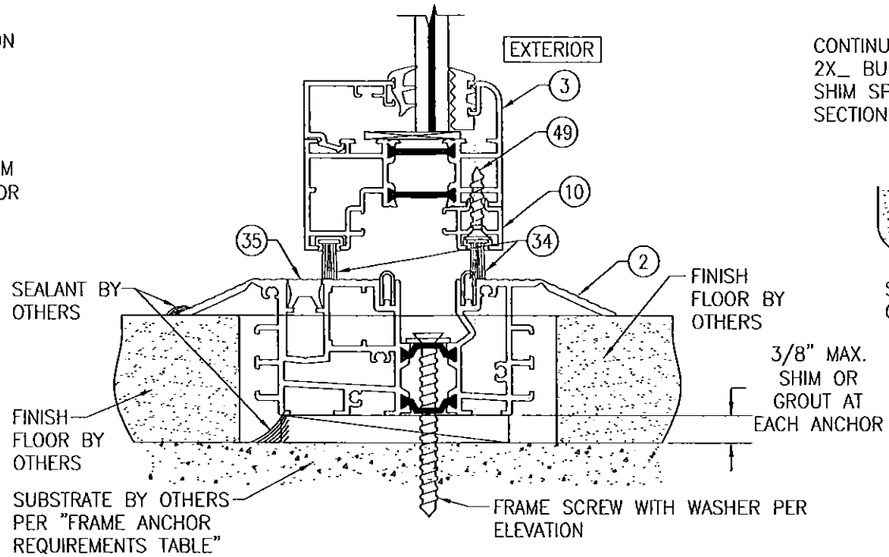
CERTIFICATION
APR 15 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1636 | REV. B
SHEET NO. 6 OF 8



DOUBLE ROW ANCHOR DETAIL AT HEAD & SIDES

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(HEAD SECTION SHOWN. SIDES ARE INSTALLED THE SAME)

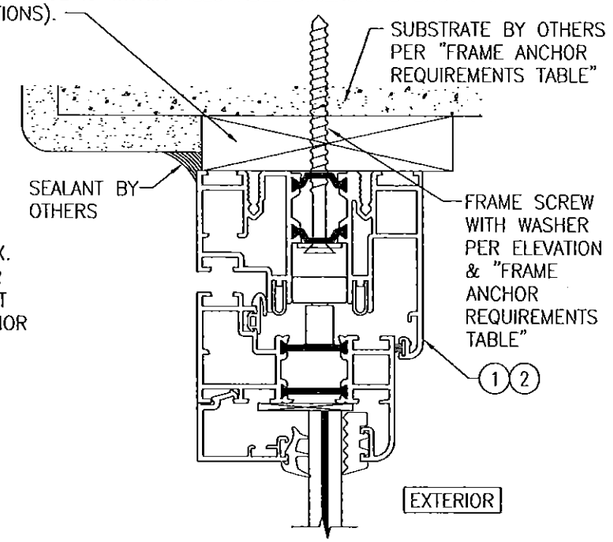


FLUSH SADDLE SILL DETAIL

(SWING DOOR SHOWN. FOLDING PANELS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(DOUBLE SCREW ROW DOES NOT APPLY TO THIS DETAIL)

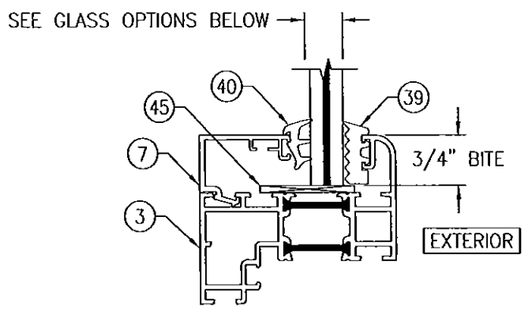
WHEN AN ADA/FLUSH SADDLE SILL IS USED, THESE DOORS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION OR THEY ARE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.

CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X_ BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).



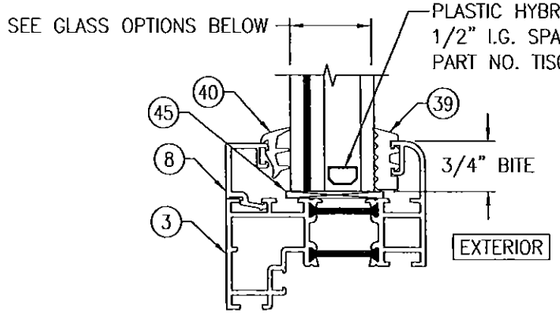
OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN. SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(SINGLE SCREW ROW INSTALLATION SHOWN. DOUBLE SCREW ROW ALSO APPLIES)



NON-I.G. GLAZING DETAIL GLASS OPTIONS 1 & 2

GLASS OPTION 1: 7/16" LAMINATED GLASS (3/16" H.S./0.09 DUPONT SG/3/16" H.S.)
GLASS OPTION 2: 7/16" LAMINATED GLASS (3/16" AN./0.09 DUPONT SG/3/16" AN.)



I.G. GLAZING DETAIL GLASS OPTIONS 3, 4, 5 & 6

GLASS OPTION 3: 1 1/8" I.G. LAMINATED GLASS (3/16" H.S./0.09 DUPONT SG/3/16" H.S. INTERIOR; 1/2" AIR SPACE; 3/16" TEMP. EXTERIOR)
GLASS OPTION 4: 1 1/8" I.G. LAMINATED GLASS (3/16" H.S./0.09 DUPONT SG/3/16" H.S. INTERIOR; 7/16" AIR SPACE; 1/4" TEMP. EXTERIOR)
GLASS OPTION 5: 1 1/8" I.G. LAMINATED GLASS (3/16" AN./0.09 DUPONT SG/3/16" AN. INTERIOR; 1/2" AIR SPACE; 3/16" TEMP. EXTERIOR)
GLASS OPTION 6: 1 1/8" I.G. LAMINATED GLASS (3/16" AN./0.09 DUPONT SG/3/16" AN. INTERIOR; 7/16" AIR SPACE; 1/4" TEMP EXTERIOR)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 15-0226.06
Expiration Date 02/11/2020
By _____
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/23/09

NO.	REVISION DESCRIPTION	BY	DATE

MANUFACTURER
NANA WALL SYSTEMS, INC
707 REDWOOD HIGHWAY
MILL VALLEY, CA 94941
800-873-5673

DRAWING TITLE
SL-73 IN-SWING IMPACT FOLDING PANELS

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

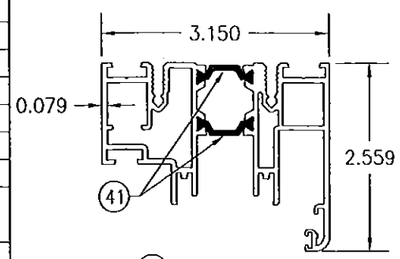
CERTIFICATION
APR 15 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.	REV.
1636	B

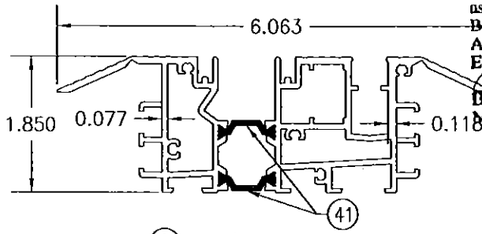
SHEET NO.
7 OF 8

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	FRAME/STANDARD RAISED SILL	6063–T5 ALUMINUM
2	ADA/FLUSH SADDLE SILL	6063–T5 ALUMINUM
3	PANEL STILE /RAIL	6063–T5 ALUMINUM
5	SLIDING POST	6063–T5 ALUMINUM
6	POST	6063–T5 ALUMINUM
7	NON–I.G. GLAZING BEAD	6063–T5 ALUMINUM
8	I.G. GLAZING BEAD	6063–T5 ALUMINUM
9	KICK PLATE	6063–T5 ALUMINUM
10	STILE/RAIL EXTENSION	6063–T5 ALUMINUM
11	STILE/RAIL EXTENSION	6063–T5 ALUMINUM
12	FRAME CORNER KEY	6063–T5 ALUMINUM
13	PANEL CORNER KEY	6063–T5 ALUMINUM
14	PANEL CORNER KEY	6063–T5 ALUMINUM
15	REINFORCEMENT CLIP (4 PER POST; 2 EACH END)	S.S.
	HARDWARE	
18	UPPER GUIDING TROLLEY ROLLER REINFORCEMENT	NEIDERHOFF OR DELLENBUSH 15–71–53–1 WESTERFELD 15–73–78–X S.S.
19	BOTTOM ROLLER & ROLLER REINFORCEMENT	NEIDERHOFF OR DELLENBUSH 15–71–50–1 WESTERFELD 15–73–78–X S.S.
20	STEEL INSERT ROLLER TRACK	WELSER 5–66–09
21	BUTT HINGE	BURGHAUS 15–0–2210–190 DIECAST OR IBW IDEAL 15–0–2227/8–120 S.S.
22	CONCEALED 2–POINT LOCK	EURIT SRL 15–0–2001–1
23	3–POINT MULTI–POINT LOCK	VBH GMBH 15–60–27–1
24	DEADBOLT	VBH GMBH 15–0–210–109
25	OPERATOR HANDLE	AS REQ'D TO OPERATE 2 & 3–POINT LOCK
26	OPERATOR HANDLE	AS REQ'D WITH PUSH/PULL SWING DOORS
27	CONCEALED 1–POINT LOCK	EURIT SRL 15–0–2001–1
28	CONCEALED 2–POINT LOCK	WIHL. SCHLECHTENDAHL & SOHNE 15–0–218
	SEALS & SEALANTS	
31	WEATHERSTRIP	DURAPROOF OR TREMCO 25–0–1052–195 EPDM
32	PILE SEAL	KULLEN GMBH 25–0–1065–171 POLYAMIDE
33	COVER GASKET	JAGEER GUMMI UND KUNSTSTOFF OR TREMCO 25–0–1054–195 EPDM
35	FILLER SEAL	DURAPROOF OR TREMCO 25–0–1084–155 EPDM
36	PANEL GASKET	DURAPROOF OR TREMCO 25–0–1036–195 EPDM
37	CONNECTOR	DURAPROOF OR TREMCO 25–0–1056–195 EPDM
38	PANEL GASKET	SYNCAMER GUMMI OR TREMCO 25–0–1050–195 EPDM
39	EXTERIOR GLAZING GASKET (DUROMETER = 56)	TREMCO TX16702E EPDM
40	INTERIOR GLAZING GASKET (DUROMETER = 70)	TREMCO 25–0–1007–X EPDM
41–43	DEBRIDGING/THERMAL BREAK	ENSINGER, INC., TECATHERM 66 GF INSULBAR POLYAMIDE
45	GLAZING SHIM	GLUSKE, PVC
46	1/2" X 3" X 1/16" THICK GLAZING TAPE	ADHERED TO EA. HINGE AS A SEAL

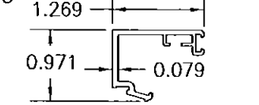
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	FASTENERS	
48	1/8" RIVET	6 PER KICK PLATE
49	NO. 8 X 1" SMS SCREW	WITHIN 4" FROM CORNERS & MAX. 16" O.C.
50	NO. 10 X 3/8" FH S.S. MS	4 PER HINGE
51	3/16 X 1/4 S.S. SET SCREW	4 PER HINGE
52	NO. 8 X 1 1/4" SMS SCREW	WITHIN 4" FROM CORNERS & MAX. 16" O.C.
53	NO. 8 X 2 3/4" SMS SCREW	WITHIN 4" FROM CORNERS & MAX. 16" O.C.
54	NO. 8 X 1 3/4" SMS SCREW	WITHIN 4" FROM CORNERS & MAX. 16" O.C.
55	NO. 8 X 1/2" SMS SCREW	2 PER CLIP



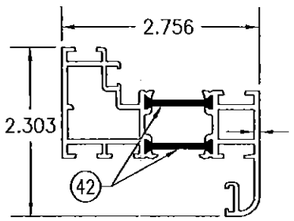
1 FRAME/STANDARD RAISED SILL



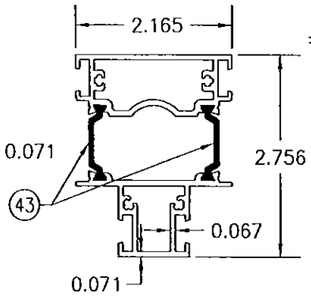
2 ADA/FLUSH SADDLE SILL



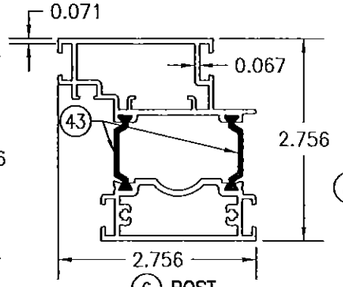
7 NON–I.G. GLAZING BEAD



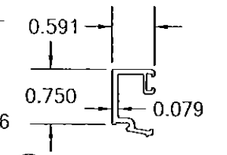
3 PANEL STILE /RAIL



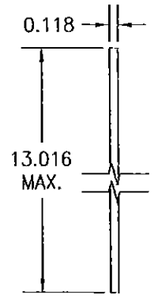
5 SLIDING POST



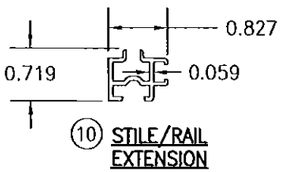
6 POST



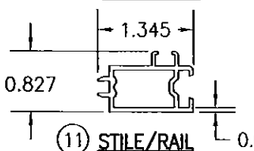
8 I.G. GLAZING BEAD



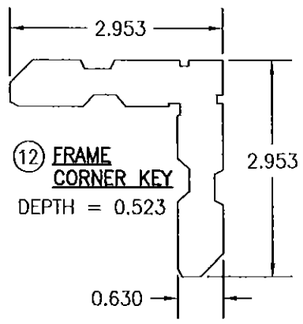
9 KICK PLATE



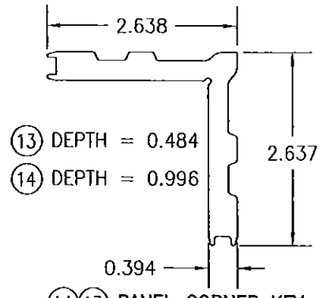
10 STILE/RAIL EXTENSION



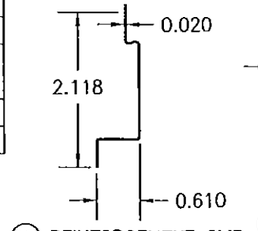
11 STILE/RAIL EXTENSION



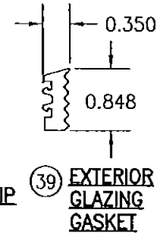
12 FRAME CORNER KEY
DEPTH = 0.523



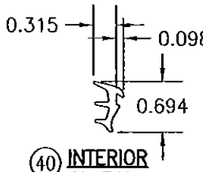
13 DEPTH = 0.484
14 DEPTH = 0.996
14 13 PANEL CORNER KEY



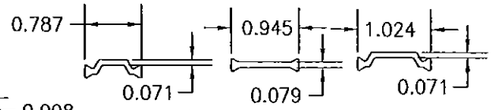
15 REINFORCEMENT CLIP
LENGTH = 0.787



39 EXTERIOR GLAZING GASKET



40 INTERIOR GLAZING GASKET



41 42 43 THERMAL BREAKS

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 15-0226.06
Expiration Date 08/11/2020
By
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/23/09

NO	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
FOLDING PANELS
SL–73 IN–SWING IMPACT FOLD

MANUFACTURER
NANA WALL SYSTEMS, INC
707 REDWOOD HIGHWAY
MILL VALLEY, CA 94941
800–873–5673

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561–744–3424

CERTIFICATION
APR 15 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1636 | REV. B
SHEET NO. 8 OF 8